

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_6 ~ C1216XT-30LXXK-WDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00629\_6  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 9/20/2017  
[UPDATE] 3/9/2018  
[LUMCAT] C1216XT-30L-xxK-WD-EX-TCY-SO  
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
[OTHER] Internal Reflector, Wide Beam  
[OTHER] Solite Lens, Flush with Lower Trim  
[OTHER] 72.2 Degree Beam Angle  
[OTHER] Aimed at 0 Degrees  
[LAMPCAT] N/A, 19mm LES  
[LAMP] N/A, 83 CRI  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_6 ~ C1216XT-30LXXK-WDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29810	32275	29523
55	10850	11897	11481
65	7987	8541	8397
75	8935	8931	8923
85	9199	8255	8389

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0</b>	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809
<b>5</b>	3643.615	3706.450	3704.673	3714.015	3690.126	3613.669	3605.876	3545.871	3536.364	3480.461
<b>10</b>	3257.583	3355.027	3349.482	3386.825	3325.672	3201.698	3186.237	3086.138	3068.232	2981.740
<b>15</b>	2709.848	2817.076	2810.682	2856.515	2772.919	2631.448	2613.176	2509.376	2486.365	2395.405
<b>20</b>	2131.447	2226.852	2216.810	2258.351	2167.911	2037.221	2009.019	1918.514	1898.098	1826.147
<b>25</b>	1612.333	1672.871	1674.245	1691.858	1622.649	1519.680	1484.159	1426.690	1395.686	1358.974
<b>30</b>	1202.056	1249.303	1249.433	1268.623	1208.221	1131.897	1118.498	1064.846	1053.215	1004.962
<b>35</b>	869.207	916.701	903.229	935.277	882.190	800.229	790.981	737.694	737.160	684.811
<b>40</b>	556.814	597.555	579.732	600.089	559.102	487.664	469.144	437.039	424.882	398.795
<b>45</b>	300.760	329.978	325.628	326.000	297.862	260.197	256.304	231.666	216.781	208.252
<b>50</b>	154.453	168.440	173.453	171.660	155.002	141.763	136.942	126.432	125.370	117.672
<b>55</b>	88.799	95.200	97.366	101.371	93.962	86.990	84.506	80.740	82.741	79.836
<b>60</b>	63.371	64.691	65.397	67.748	64.505	62.736	63.648	61.938	63.874	61.024
<b>65</b>	48.162	52.129	51.502	51.638	50.637	53.007	54.246	54.171	52.219	52.260
<b>70</b>	42.819	40.801	43.452	42.242	41.776	45.886	48.414	46.767	46.992	47.215
<b>75</b>	32.997	33.179	32.981	33.715	32.951	43.815	43.284	40.793	41.133	43.067
<b>80</b>	22.913	24.800	23.122	25.372	23.597	37.921	36.059	37.153	35.609	34.952
<b>85</b>	11.439	11.354	10.266	12.096	10.432	22.866	24.297	23.096	21.978	24.143
<b>90</b>	2.410	1.060	2.321	1.299	2.940	11.300	9.275	14.720	8.490	15.097
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
<b>0</b>	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809	3751.809
<b>5</b>	3487.189	3448.075	3516.511	3567.813	3573.820	3637.076	3643.615
<b>10</b>	2997.313	2956.014	3042.696	3135.066	3139.926	3230.857	3257.583
<b>15</b>	2414.923	2380.676	2468.459	2579.179	2576.220	2681.282	2709.848
<b>20</b>	1840.582	1824.026	1906.735	2005.664	2007.927	2097.085	2131.447
<b>25</b>	1366.609	1362.132	1424.988	1500.806	1514.399	1577.752	1612.333
<b>30</b>	1016.276	999.445	1056.242	1122.490	1127.441	1186.088	1202.056
<b>35</b>	685.767	677.815	735.856	790.548	791.309	851.093	869.207
<b>40</b>	405.922	400.474	443.539	489.416	493.540	539.121	556.814
<b>45</b>	219.589	212.862	232.004	260.034	273.889	299.237	300.760

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<b>50</b>	119.581	117.990	128.931	137.479	143.114	156.987	154.453
<b>55</b>	75.759	77.827	83.504	82.961	79.698	87.705	88.799
<b>60</b>	59.654	60.601	62.400	60.525	59.196	60.139	63.371
<b>65</b>	52.204	54.748	54.242	49.935	49.544	48.783	48.162
<b>70</b>	45.959	49.239	48.359	40.313	40.902	42.075	42.819
<b>75</b>	40.432	40.847	44.794	29.244	32.957	34.594	32.997
<b>80</b>	33.495	34.989	36.411	24.003	23.124	21.626	22.913
<b>85</b>	22.035	24.540	23.354	8.894	10.488	10.553	11.439
<b>90</b>	9.198	11.592	17.100	0.963	2.128	1.492	2.410
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1053.79	N.A.	39.30
0-30	1758.95	N.A.	65.70
0-40	2258.44	N.A.	84.30
0-60	2565.33	N.A.	95.80
0-80	2657.02	N.A.	99.20
0-90	2676.26	N.A.	99.90
10-90	2346.62	N.A.	87.60
20-40	1204.65	N.A.	45.00
20-50	1427.49	N.A.	53.30
40-70	359.12	N.A.	13.40
60-80	91.69	N.A.	3.40
70-80	39.46	N.A.	1.50
80-90	19.24	N.A.	0.70
90-110	1.91	N.A.	0.10
90-120	1.91	N.A.	0.10
90-130	1.91	N.A.	0.10
90-150	1.91	N.A.	0.10
90-180	1.91	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	2678.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	329.65
10-20	724.14
20-30	705.17
30-40	499.49
40-50	222.84
50-60	84.05
60-70	52.23
70-80	39.46
80-90	19.24
90-100	1.91
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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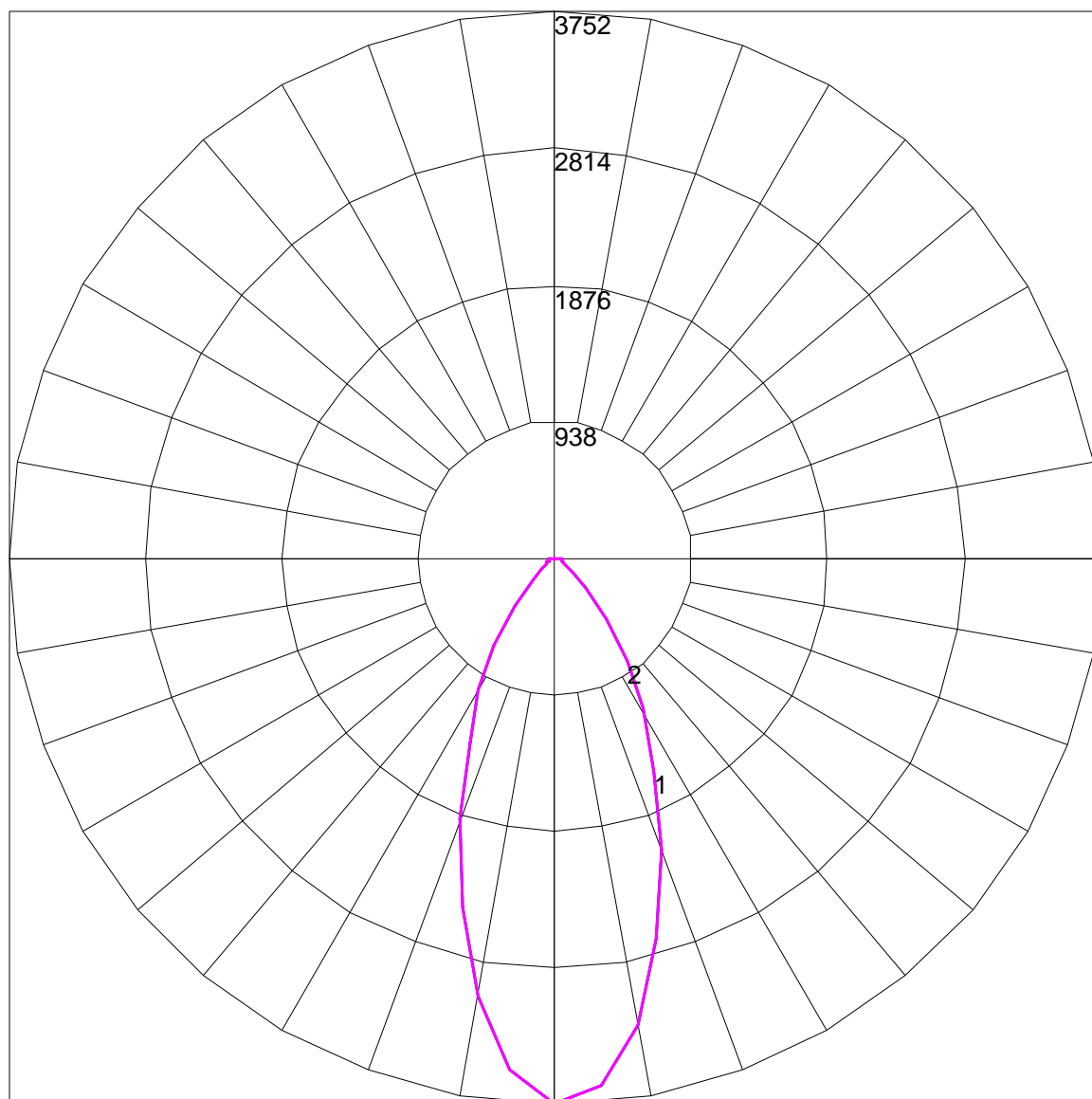
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 3751.809 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)